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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/511,617	08/15/2005	Juergen Schultz	11150/87	4036
26646 KENYON & K	7590 04/15/200 ENYON LLP	EXAMINER		
ONE BROADY		FAULK, DEVONA E		
NEW YORK, NY 10004			ART UNIT	PAPER NUMBER
			2615	
			MAIL DATE	DELIVERY MODE
			04/15/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)				
Office Action Comments	10/511,617	SCHULTZ, JUERGEN				
Office Action Summary	Examiner	Art Unit				
	DEVONA E. FAULK	2615				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1)⊠ Responsive to communication(s) filed on <u>06 Au</u>	iaust 2007.					
	action is non-final.					
·=		secution as to the merits is				
	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
ologod in addordance with the practice and c	n parto Quayro, 1000 0. D . 11, 10	0.0.210.				
Disposition of Claims						
4)⊠ Claim(s) <u>12-25</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6) Claim(s) 12-25 is/are rejected.						
7) Claim(s) is/are objected to.						
· ·	· · · · · · · · · · · · · · · · · · ·					
8) Claim(s) are subject to restriction and/or election requirement.						
Application Papers						
9)☐ The specification is objected to by the Examiner.						
10)⊠ The drawing(s) filed on <u>15 October 2005</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal Pa 6) Other:	te				

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DETAILED ACTION

Response to Arguments

- 1. Applicant's arguments filed 1/30/2008 have been fully considered but they are not persuasive. Regarding the 103 rejections set forth in the previous office action, the applicant essentially asserts that prior art McGregor and Maston, and in particular Maston, fails to disclose weighting signal levels of a transmitter device. The applicant discloses that microphones (11-14) of Figure 1 are the transmitters. The examiner disagrees. The claim language recites "weight signal levels of at least one transmitter". Maston disclose a multi-microphone-loudspeaking system including a comparator that selects the microphone with the greatest output and connects it while simultaneously disconnecting the other microphones (abstract). This reads on the claim language as recited. The examiner is maintaining the rejection.
- 2. Regarding the 112 1st rejection set forth in the previous office action, the applicant asserts that the application as filed sufficiently describes the subject matter included in claims 23 and 25 but fails to direct the examiner to where the support for this claim language is found in the specification. However, upon further consideration, the examiner has determined that the subject matter is disclosed. The 112 1st rejection set forth in the previous office action is withdrawn.
- 3. Claims 1-11 are cancelled.

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Claim Rejections - 35 USC § 103

4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 5. Claims 12-15,18-20,22,24,25 are rejected under 35 U.S.C. 103(a) as being unpatentable over McGregor et al. (US 4,965,833) in view of Maston (US 3,755,625).

Claims 12 and 22 share common features.

Regarding **claims 12 and 22**, McGregor discloses a communications device for transmitting acoustic signals in a motor <u>vehicle (column 1, lines 32-38; column 3, lines 41-54 abstract, Figure 1)</u>, comprising:

at least two transmitter devices configured to transmit acoustic signals (Figure 2, front/rear microphones 6 and 9, amplifier/electrical conditioning units 8,11);

at least two receiver devices configured to emit acoustic signals (Figure 2, front/rear loudspeakers 7 and 10, Figures 2,5 and 6; column 3, lines 41-54);

a control unit configured to activate and deactivate at least the transmitter devices (switching unit 12, Figure 2; column 3, lines 27-33; column 1, lines 32-47);

wherein at least one transmitter device and at least one receiver device are assigned to a spatial position (column 2, lines 1-15, "favorable acoustic position"), the transmitter devices configured to detect signal levels in accordance with the control unit switching unit 12, Figure 2; column 2, line 56- column 3, line 40; column 1, lines 32-47), the control unit configured to activate a transmitter device (column 2, line 56- column 3, line 40), the control unit assigned at least one control element configured to at least one of (a) selectively deactivate at least one transmitter device independently of an applied signal level (on/off switch , latch switch 24, push-button 25, by which the amplifier/electrical conditioning unit can be selectively deactivated; column 5, line 45-column 6, line 36).

McGregor fails to disclose that the signal level of at least one transmitter is weighted by means of the control element and that the signal level at the transmitters can be measured by means of the control element and only the transmitter with the highest signal level is activated.

Maston disclose a multi-microphone-loudspeaking system including a comparator that selects the microphone with the greatest output and connects it while simultaneously disconnecting the other microphones (abstract; his reads on the activating only one transmitting device language recited in the claims and weighing signal levels of at least one transmitter device. It would have been obvious to modify McGregor so that the signal levels from each of the microphones are weighted and so that only the transmitter with the highest signal level is activated in order to minimize background noise.

Regarding **claim 13**, McGregor as modified by Maston discloses wherein the control element is configured to deactivate at least one receiver element independently of the signal levels (McGregor, column 2, line 56- column 3, line 40; column 6, line 10-column 7, line 6).

Regarding **claim 14**, McGregor as modified by Maston discloses wherein the transmitter devices include at least one of (a) a microphone and (b) a microphone array (McGregor; column 2, line 56- column 3, line 40).

Regarding **claim 15**, McGregor as modified by Maston discloses wherein the receiver devices include a loudspeaker (McGregor; column 2, line 56- column 3, line 40).

Regarding **claim 18**, McGregor as modified by Maston discloses further comprising echo compensators arranged between the transmitter devices and the receiver devices (McGregor; column 2, line 56- column 3, line 40; column 6, line 10-column 7, line 6).

Regarding **claim 19**, McGregor as modified by Maston discloses further comprising attenuation devices arranged between the transmitter devices and the receiver devices (McGregor, Figure 2; column 3, lines 21-40).

Regarding **claim 20**, McGregor as modified by Maston discloses wherein the control element includes at least one of (a) a non-locking key, (b) a switch, (c) a rotary transducer and (d) a pressure transducer (McGregor; column 2, line 56- column 3, line 40; column 6, line 10-column 7, line 6; switching unit).

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Regarding **claims 24 and 25**, the prior art has recognized selectively deactivating at least one receiver device independently of an applied signal level (see McGregor as applied to claim 13 above). It would have been obvious to try, with a reasonable expectation of success, selectively deactivate at least one transmitter device independently of an applied signal, for the benefit of reducing background noise.

6. Claim 17 is rejected under 35 U.S.C. 103(a) as being unpatentable over McGregor et al. (US 4,965,833) in view of Maston (US 3,755,625) in further view of Schaaf (WO 99/49698).

Regarding **clam 17**, McGregor as modified by Maston fails to disclose of time-delay elements configured to compensate for differences in propagation time. Schaaf discloses time-delay elements configured as claimed (page 2-3 of translation). It would have been obvious to modify McGregor as modified to include time-delay elements to compensate for differences in propagation in order to determine the location of a source.

7. Claim 16, are rejected under 35 U.S.C. 103(a) as being unpatentable over McGregor et al. (US 4,965,833) in view of Maston (US 3,755,625) in further view of Lee et al. (US 4,449,238).

Regarding **claim 16**, McGregor as modified by Maston fails to disclose wherein the control unit is configured to one of (a) deactivate an assigned receiver device of an active transmitter device and (b) reduce a level of the assigned receiver device of the active transmitter device. Lee discloses wherein the control unit is configured to one of (a) deactivate an assigned receiver device of an active transmitter device and (b)

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reduce a level of the assigned receiver device of the active transmitter device (Lee, column 2, lines 32-66). It would have been obvious to modify McGregor as modified so that the control unit reduces a level of the assigned receiver device of the active transmitter for the purpose of controlling the output level.

8. Claims 21 and 23 are rejected under 35 U.S.C. 103(a) as being unpatentable over McGregor et al. (US 4,965,833) in view of Maston (US 3,755,625) in further view of Yoshioka (JP 10-032898).

Regarding claims 21 and 23, McGregor as modified by Matsuo discloses a display (illuminating means provided for the latch switch and push-buttons; McGregor). McGregor as modified fails to disclose further comprising a multifunction operation unit configured to display a position of the transmitter devices and the receiver devices, the control element assigned to the multifunction operation unit and configured to display seating positions corresponding to positions of the transmitter devices and receiver devices. Yoshioka discloses a display (1, Figure 1) that displays each seat position (see abstract). Each seat position corresponds to a sound field position. In light of the prior art, it would have been obvious to try to have the seat position correspond to a transmitter and receiver position, with a reasonable expectation of success, in order to set a sound field at a desired seat position

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Conclusion

4. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Devona E. Faulk whose telephone number is 571-272-7515. The examiner can normally be reached on 8 am - 5 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Vivian Chin can be reached on 571-272-7848. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

DEF

/Vivian Chin/ Supervisory Patent Examiner, Art Unit 2615